Dry Electrodes Facilitate Remote Health Monitoring



Johnson Space Center

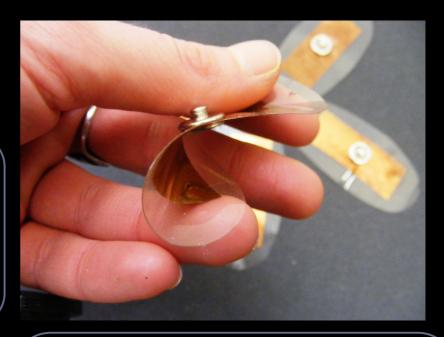
NanoSonic Inc. Pembroke, VA

NASA Technology

- Without any doctors nearby, astronauts in space must monitor their own health, which poses challenges.
- The spaghetti-like straps of an electrocardiogram (EKG), used to track heart rate, are both uncomfortable and hard to manage in microgravity.

Technology Transfer

- Johnson Space Center awarded NanoSonic with Small Business Innovation Research (SBIR) funding to develop a more space-friendly device.
- The company used its pre-existing Metal Rubber technology to create sensors that didn't require moisture to stick to skin and wiring that didn't get tangled.



Benefits

- In 2011 NanoSonic began marketing its dry electrode sensors and also its EKGear sensor shirt, which transmits heart rate and cardiovascular activity wirelessly to a display.
- With the sensors able to monitor temperature, respiration, and location, hospitals, the military, and first responders can also benefit.